

MAETVLSWASLVSASLSKASAAAADETSLLLGVEKDIWYIKDELKTQAFRAAELMKKDELLKVAEQIRDLSYDIEDSLDEFKVHIESOTLFRQLVKLRERHRIAIRIHNLSRVEEVSRRNTRYSLVKPISSGTEIDMDSYAEDI 150
 RNSARNVDEAELVGFSDSKKRILEMIDTNANDGPAKVICVVGSGGLGKTALSRIKIPSEEDIKKNFPCNAWITVSQSFRHIELLKDMIRQLLGPSSLDQLLQELQKGVVQVHHLSEVLIIBELKEKRYFVWLDDDLWLHDMWNWINEIAF 300
 PNNKGSRIVITTRNVDLAEKCATAVLVYHDLFQWDAITLLLRKTNKNHEDMESNKMQKQWVERIVNCKGRPLAAILTIGAVLATKQVSEWEKFEHLFSELEINPISLEALRRMVTIGYNHLPshLKPcFLYLSIFPEDFEIKRNRL 450
 VGRWIAEGFVRPKVGMTTKDVGESYFNELINRSMIQRSRVGIAGKIKTCRIHDIIRDITVSIHQENFVLLPMGDGSDLVQENTRHHIAFHGSMSCKTGLDWIIRSLAFGDRPKSLAHAVCPDQQRMLRVLLLEEDVTFLLITQKDFDRIA 600
 LICHKYLISIGSSSIYSLPRSIGKQGLQTLNMFSTYIAALPSEISKLQQLHLTRCIGQPHYDNFSLNHPMKCTNTICLPKVFTPLVSRDDRAHQIAELHNATKSCWSESIGVKVPKGIGKIRDLQVLEYVDIRRTSSRAIKELGQLS 750
 KLRKLGVTTFNGSTKECKILYAAIEKLSLSQSLHVDIAGISDGGTLECLDSISSPPPLLRTLVLDSILEENPNWIEQLTHKKIYLIIRSKLKEGKTMLILGALPMLVVLHLRNAYLGEKLVFKTGAPFNLRTLWVYELDQLREIRFEDG 900
 SSPLLEKIEIGCFCELESGITGIIHLPLKEIPINHYGSKVAGLGQLEGEVNAHNNRPVLLNMYSDRRYHDLGAEEGSSIEIQOTADVPVDAEGSVTVAVEATDPLPEQEGESQSQVITLTTNDSSEIGTAQAG 1032

Appendix A Conserved domains of NBS4 (SEQ ID NO:8).

The conserved motifs in the NBS domain are underlined and bolded and the LRR repeats based on the motif xxLxLxx in the LRR domain are indicated by squares.